



# TECHNICAL DATA SHEET

## RayMark Six Labels

Document number: TTDS-032  
Issue: 2  
Date: August 2014

<b>MATERIAL DESCRIPTION:</b>	Computer-printable zero halogen label material. Permanent pressure sensitive acrylic adhesive. Thermally stabilised white polyester film with special ink receptive latent cure epoxy coating on the label surface. After printing, the surface is heat cured, embedding the image within a tough polymeric layer.
<b>USE:</b>	RayMark Six labels have outstanding abrasion and fluid resistance without the need for an overlay. Ideal for applications where high performance variable data labels are needed, for example in defence, marine, rail and aerospace applications. Can be used as a wire/cable wraparound marker for substrates not less than 6mm (0.25 inches) diameter. Not recommended for outdoor use.
<b>PRINTING SYSTEM</b>	<p>Print Quality and Print Performance can only be guaranteed when specific TE printer and ribbons are used.</p> <p>The current list of printers and ribbons can be found in TE document 411-121005 'Identification Printer Product Ribbon Matrix'</p> <p>This document can be found at the TE document centre: <a href="http://www.te.com/commerce/DocumentDelivery/DDEController">http://www.te.com/commerce/DocumentDelivery/DDEController</a></p> <p>Raymark is fully supported by WINTOTAL and PrintEasy label printing software, available from the TE product store: <a href="http://www.te.com/en/general/label-printing-software.html">http://www.te.com/en/general/label-printing-software.html</a></p> <p>Contact a TE representative for further information</p>
<b>CURING CONDITIONS:</b>	5 minutes at 150°C (302°F) in an air circulating oven.
<b>SHELF LIFE/STORAGE CONDITIONS:</b>	<p>Can be stored unopened for 12 months at temperatures not exceeding 35°C (95°F).</p> <p>Once opened, product should be stored below 25°C (77°F) and 80% relative humidity and used within 6 months.</p>
<b>SERVICE TEMPERATURE:</b>	<p>Wiring marking: -40°C to +85°C (-40°F to +185°F) continuous.</p> <p>Panel marking: -40°C to +105° (-40°F to +221°F) continuous.</p>
<b>INSTALLATION TEMP:</b>	+10°C to +40°C (+50°F to +104°F).
<b>COLOURS:</b>	White.

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Property	Test Method	Required
Fungus Resistance	BS EN 60068-2-10:2005 Print Legibility TE108-121012	Rating 1 (max) Legible, print contrast >3
Light fastness, xenon arc	250 hour, ASTM G155-05a Print Legibility TE108-121012 Adhesion to aluminium plate TE 108-121030	Legible, print contrast >3 20N/25mm adhesion
Continuous humidity	168h, 40°C (104°F)/95% RH Print Legibility TE108-121012 Adhesion to aluminium plate TE 108-121030	Legible, print contrast >3 15N/25mm adhesion
Thermal ageing	168h at 150°C (302°F) Print Legibility TE108-121012 Adhesion to aluminium plate TE 108-121030	Legible, 30N/25mm adhesion
Thermal cycling	4 hours at -55°C (-67°F) 4 hours at 25°C (77°F) 4 hours at 150°C (302°F) 4 hours at 25°C (77°F) Print Legibility TE108-121012 Adhesion to aluminium plate TE 108-121030	Legible, 25N/25mm adhesion
Dry abrasion resistance	TE 109-121020 500 cycles, 500g, CS10 wheel	Legible, print contrast >3
<u>180° Adhesion to:</u>		
Stainless steel		15 N/25mm
Aluminium		20 N/25mm
Acrylic painted surface	TE 109-121030	20 N/25mm
ABS		20 N/25mm
Nylon		15 N/25mm
PVC		15 N/25mm

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### MARK PERMANENCE:

Fluid	Test Method	Required
<b>MIL STD 202G Method 215</b> Solvent A Solvent B Solvent D	TE 109-121014 30 strokes, toothbrush	Legible, print contrast >3

### Fluid Resistance

100°C, 2 hours:

- Water

50°C, 24 hours:

- Lubricating Oil O-149
- Salt water solution (3.5% mass/mass)

Mark permanence and 180° Peel test to aluminium substraight

23°C, 24 hours:

- White Spirit
- Iso Propyl Alcohol
- Ethylene Glycol
- Hydraulic Fluid H-515
- Diesel Fuel

Immersion, followed by Print Permanence, TE 109-121012, 20 rubs, 1kg load

Print legible, minimum print contrast 3  
10 N/25mm minimum

23°C, 1 hour:

- Skydrol 500B4

Immersion followed by 180° peel test, TE 109-121030

Further information and availability can be found through the TE Cable Identification web site:  
<http://www.te.com/catalog/labels-identification/menu/en/12933?BML=10576>

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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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